

Final

LISTING OF CLAIMS

1. (Original) A crosslinked polymeric bead comprising a polymer having from 0.5 mole percent to 2 mole percent crosslinker; wherein said bead has a diameter no greater than 200  $\mu\text{m}$ , no void spaces having a diameter greater than 5  $\mu\text{m}$ , and less than 5 weight percent of organic extractables.

2. (Original) The crosslinked polymeric bead of claim 1 in which the polymer has from 0.5% to 1.6% crosslinker and the bead has a diameter no greater than 170  $\mu\text{m}$ .

3. (Original) The crosslinked polymeric bead of claim 2 in which the polymer is a styrene polymer with a divinylbenzene crosslinker.

4. (Original) The crosslinked polymeric bead of claim 3 in which the polymer has from 0.7 mole percent to 1.2 mole percent crosslinker and the bead has no void spaces having a diameter greater than 3  $\mu\text{m}$ , and less than 3 weight percent of organic extractables.

5. (Original) The crosslinked polymeric bead of claim 4 in which the bead has a diameter no greater than 150  $\mu\text{m}$ .

6. (Currently Amended) A method for producing a lightly crosslinked polymeric bead having no void spaces having a diameter greater than 5  $\mu\text{m}$ ; said method comprising steps of:

(a) preparing a suspension polymerization mixture in a vessel; said mixture comprising: (i) a monomer mixture comprising at least one vinyl monomer and 0.5 mole percent to 2 mole percent of at least one crosslinker; and (ii) from 0.25 mole percent to 1.5 mole percent of at least one free radical initiator;

(b) removing oxygen from the suspension polymerization mixture and the vessel by introducing an inert gas for a time sufficient to produce an atmosphere in the vessel containing no more than 5 percent oxygen;

(c) allowing the monomer mixture to polymerize; and

(d) washing the bead with an aprotic organic solvent.

Claim 7 has been canceled.

8. (Currently Amended) The method of claim ~~7~~ 6 in which the atmosphere in the vessel contains no more than 2 percent oxygen.

9. (Original) The method of claim 8 in which said at least one vinyl monomer comprises at least 90 mole percent styrene, said at least one crosslinker comprises divinylbenzene, and the bead has a diameter no greater than 200  $\mu\text{m}$ ..

10. (Currently Amended) A lightly crosslinked polymeric bead having no void spaces having a diameter greater than 5  $\mu\text{m}$ ; said bead produced by a method comprising steps of:

(a) preparing a suspension polymerization mixture in a vessel; said mixture comprising: (i) a monomer mixture comprising at least one vinyl monomer and 0.5 mole percent to 2 mole percent of at least one crosslinker; and (ii) from 0.25 mole percent to 1.5 mole percent of at least one free radical initiator;

(b) removing oxygen from the suspension polymerization mixture and the vessel by introducing an inert gas for a time sufficient to produce an atmosphere in the vessel containing no more than 5 percent oxygen;

(c) allowing the monomer mixture to polymerize; and

(d) washing the bead with an aprotic organic solvent.